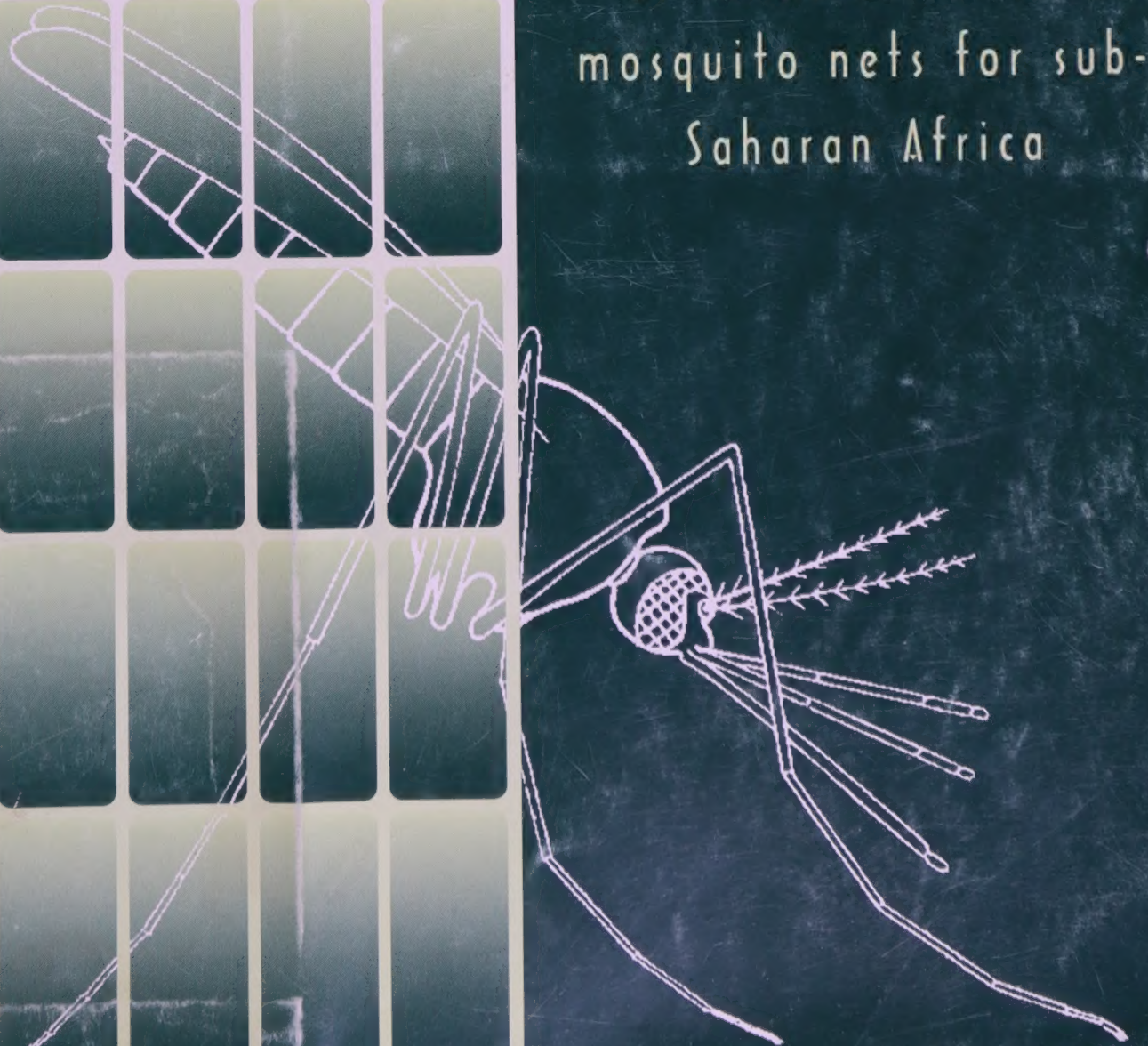


Malaria Control

with
**Insecticide
Treated
Nets**

PATH Canada's
directory of suppliers
of insecticides and
mosquito nets for sub-
Saharan Africa



05439



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This directory is based on the AHRTAG "Directory of suppliers of insecticide and mosquito nets for sub Saharan Africa" which was developed in collaboration with PATH Canada in 1997. The current directory was researched and developed by Catherine Reed, Brijitte Reppen and Daniel Lussier of PATH Canada. Jacqueline Cattani, Christian Lengeler and Zenaw Adam kindly contributed their article providing an update of research into the benefits of using treated mosquito nets. The article by Caroline Jones, Janee Miller and Jo Lines provides valuable information concerning the new topic of small doses of insecticide designed for home use.

The section concerning "Labels and Packaging: What to Look For" has been taken largely from the previous AHRTAG Directory, with some revisions. We would like to thank all the manufacturers and suppliers listed in the Directory for the information concerning their products.

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INTRODUCTION

Insecticide treated mosquito nets (ITNs) are a part of many malaria control programmes in sub-Saharan Africa. Their method of operation and their benefits are described in the first article in this Directory. This Directory was designed as a tool to help managers of primary health care and malaria control programmes obtain the essential materials ~ mosquito nets, bulk netting, and insecticides ~ required for effective insecticide treated net (ITN) interventions. This Directory does not attempt to provide authoritative technical guidelines on the use of treated nets, nor on the design of net interventions.

It is hoped that the information in this Directory will be of assistance to projects and programmes. PATH Canada cannot be held responsible for private contracts entered into with the companies listed in this Directory. No information on pricing is provided, as prices change frequently, are subject to negotiation and are subject to fluctuations in currency exchange rates.

USING THE DIRECTORY

PATH Canada has revised and done a complete update of the 1997 Directory by sending out a new questionnaire to all manufacturers previously listed in the 1997 version. This includes new suppliers that have become known to us. To the best of our knowledge it is accurate at the time of printing. If you know of further suppliers of nets, netting or insecticides in your own area please send details to PATH Canada.

The information is presented by country with both insecticide and netting suppliers compiled together. They are listed by the country that the manufacturer or supplier is situated in. Those supplying insecticides are marked with a "mosquito" icon and those supplying nets are marked with a "net" icon. Those supplying both are indicated by both icons. Each entry has a "organization number" that is used in the index (found at the back of the Directory) for referral instead of a page number.

The index at the back of the Directory lists the suppliers by the country or countries they supply. For example; if you wish to know who supplies insecticide to Burkina Faso, first check the names of the companies who supply all "Africa", then check under the country heading of "Burkina Faso" and you will see the name(s) of the organization(s) who supply "Burkina Faso". Please note the corresponding "organization number". This number will refer you to that organization's contact information and product description/details listed within the Directory.

If you require further information or have any questions about the Directory or ITNs, please contact PATH Canada.

INSECTICIDE-TREATED NETS (ITNS) AND PREVENTION OF MALARIA

Written by J. Cattani and C. Lengeler* and edited by Zenaw Adam

*The full article can be found in "Recent Advances in Paediatrics 16, 1997; pp 105-119".

INTRODUCTION

Malaria is one of the major public health problems in the world, particularly in Sub-Saharan Africa, where 90% of the world's malaria occurs. At the community level, the magnitude and severity of malaria varies with the intensity of transmission and level of endemicity in the area. In most highly endemic areas exposure to the disease starts early in life and as a result malarial illness and death occurs mostly in young children (< 5 years of age), the majority of whom harbour malarial parasites in their blood without any symptoms of illness. In areas of lower endemicity, on the other hand, transmission and occurrence of malaria is mostly in the form of epidemics and all age groups are equally at risk. In such areas nearly all infections lead to acute episodes of malaria, which in some people progresses into severe and complicated malaria. The recovery or death from malaria depends on various factors: The infective dose and virulence of the malarial parasite, degree of acquired immunity, presence or absence of genetic characteristics which confer some level of resistance to malaria, socio-economic factors and access to treatment.

Early recognition of the disease and rapid treatment is the mainstay of malaria control world-wide. However, diagnostic and treatment facilities are frequently inadequate or unavailable particularly in Sub-Saharan Africa. Even in places where such facilities may be available there are often long queues and backlogs that result in delays to treatment, so many cases of malaria needlessly progress to severe forms of the disease and/or death. The threat from malaria has also continued as parasites become resistant to drugs, such as chloroquine, which have long been effective, safe and available at low cost. In such looming crisis, prevention is the most cost-effective means of reducing the devastating impact of malaria. As part of the continued effort to address the problem, the use of bednets has increasingly drawn the attention of malaria prevention and control programmes.

Bednets treated with insecticides provide protection not only as a physical barrier from mosquito bites but also by killing mosquitoes when they come in contact with the treated net. In addition insecticides such as pyrethroids are excito-repellant and therefore reduce the number of mosquitoes entering the room. A treated net is primarily a form of personal protection against mosquitoes and exposure to malaria, but it can also provide protection to

the entire community if enough of the population sleeps under treated nets. When many people in a community use treated nets, marked reductions are sometimes seen in local vector population density and infectivity, producing what is known as a 'mass effect'.

KEY ELEMENTS IN MALARIA

- Together with pneumonia, diarrhoea, measles and malnutrition, malaria is responsible for 70% of all deaths in children under the age of 5 years.
- In highly endemic areas over 75% of children under 5 years of age may in a given day test positive for malarial parasites while remaining asymptomatic.
- Acute cases of uncomplicated malaria may occur in only 8-13% of the children with an estimated risk of mortality for each attack between 0.5-1%.

THE IMPACT OF INSECTICIDE-TREATED NETS IN HEALTH

Several field trials were conducted to evaluate the effectiveness of ITNs in preventing malarial infection and disease. Meta-analysis of data from selected trials suggests that children sleeping under treated nets enjoy a reduction of malaria episodes by 24% compared with those sleeping under untreated bednets and a reduction by 50% when compared with children not sleeping under bednets at all. The trials have consistently suggested a protective efficacy of ITNs between 40-63% among children and young adults. Similarly, a large hospital-based trial in Kenya examined the effect of ITNs on severity of malaria and showed that the admission rate for severe life threatening malaria was reduced significantly by 44%. Because of the difficulty in measuring malaria specific mortality, all trials so far have evaluated the effect of ITNs by using all-cause mortality as end points with the understanding that malaria is a major contributor. In different parts of Africa, evaluation of the impact of ITNs on overall child mortality have shown a reduction between 18-63% among children using treated bednets compared with those using either untreated bednets or no bednets at all. The first experience gained from the trial in The Gambia, which documented the highest mortality reduction of 63%, initiated other randomised trials of ITNs in different epidemiological settings of Africa. The overall reductions in child mortality shown from these trials were in the range of 18% in Ghana to 29% in Kenya. The lower percentage reduction compared with that obtained from the first trial in The Gambia can largely be explained by the lower coverage rate in the target population, as the trial was conducted under real rather than ideal conditions. Because the protective efficacy of treated nets can also decrease with increasing intensity of disease transmission, the impact of ITNs is clearly shown by the risk difference which measures the number of child-deaths prevented by the use of treated nets. In absolute terms, mortality reduction by 18-29% is equivalent to an averted of about 4-7 deaths per 1000 children. The 63% reduction shown in the

first study in the Gambia is equivalent to avoiding about 15 deaths per 1000 protected children.

KEY POINTS FOR CLINICAL PRACTICE

- Prevention of malaria through the regular use of insecticide-treated bednets or curtains can significantly reduce the risk of severe disease and death in children under 5 years of age in malaria endemic areas.
- Regular use of treated nets can also reduce the number and intensity of uncomplicated malaria episodes associated with fever in children.
- The residual effect of the insecticide depends on the agent used. Retreatment of nets is needed every 6 - 12 months.
- Improvement in child growth has been observed, particularly in the highest transmission season. Also haematological parameters (haematocrit and haemoglobin) in children using treated bednets have shown increases over children not sleeping under nets.
- It is important that providers of health care in malarious areas pass on the above messages in all their encounters with sick children and their caretakers, regardless of whether ITNs are being promoted through the private sector or as an integral part of public health programmes.

The health benefits of ITNs and degree of reduction in mortality depends on various factors. The epidemiology of malaria in the area (the transmission intensity, morbidity and mortality levels at baseline), population covered by the intervention, compliance by the target population, duration of the intervention, and the design and execution of evaluations can all affect the effects of ITNs.

In addition to the effects of ITNs on malarial morbidity and mortality reduction, a positive impact on the nutritional status of children was also demonstrated. Anthropometric and haematological indices among children sleeping under treated nets showed improvement when compared with indices among children in a control group. In Tanzania, one year after a programme on ITNs combined with chemotherapy was implemented, unprotected children weighed 286g less in a five month period and were twice as likely to be anaemic compared with those protected by treated nets. A similar picture was also shown in Kenya where infants sleeping under ITNs performed better than the controlled group during the high malaria transmission season.

Recently, a concern has been expressed implying that the benefits of ITN's on malaria will be transitory, and disease occurrence, particularly in the high transmission areas, might be postponed to a later age. At present, data supporting this argument is considered insufficient to suggest halting the promotion and implementation of treated bednets in Africa. The

research effort has continued to assess the health effects of ITN's over longer time periods, particularly in areas of high malarial transmission. To date there are several reasons for optimism: (i) protected children tend to be healthier, have a better nutritional status and fight off infections more easily than children in the control group; (ii) delaying the presentation of severe disease until a child is older may be less dangerous than the illness of similar severity occurring at infancy; (iii) children as they get older will spend less time under treated nets compared with infants, permitting a gradual increase of exposure, and natural development of immunity, while at the same time reducing the risk of severe disease and mortality. ITNs could help to prevent as many as 500,000 deaths each year in Africa alone.

NETTING AND INSECTICIDE

The material or netting used depends on the cultural preferences of the population, and the availability and costs of the different options. The decision of which insecticide to use depends on a number of factors: how long the insecticide lasts, the dosage to be used, the seasonality of the malaria problem, the cost, the registration status, the type of material to which it is applied and the frequency of washing. In the absence of washing, re-treatment may only be necessary once per year. Synthetic pyrethroids are the only compounds currently available that are suitable for treating nets because of their long residual effect and their very low toxicity to humans.

KEY POINTS OF TECHNICAL SPECIFICATIONS

- Bednets made from synthetic fibre last longer and require less insecticide (to achieve the same level of killing effect) than those made from cotton.
- Frequent washing removes much of the insecticides on a net. For this reason large-scale intervention projects generally provide dark coloured nets.
- Among the different shapes of nets the rectangular ones are often preferred because they are more spacious, but this does depend on the local context.
- On average the cost of a green family size bednet is between US\$ 4.50-7.0.
- On average a bednet, whether treated or not, is expected to last between 4-5 years.

So far, little guidance is available regarding the optimum distribution and financing of netting programmes, however operational research is underway. Treated nets can be distributed through a variety of channels including existing government health infrastructure, commercial establishments and non-governmental organisations. With good compliance and regular re-impregnation, ITNs are among the most cost-effective public health measures to control malaria and to improve the health of populations.

TREATING MOSQUITO NETS: ESSENTIAL INFORMATION FOR HOME-TREATMENT KITS

Dr. Caroline Jones, Dr. Jane E. Miller and Dr. Jo Lines
(The illustrations shown are taken from packaging and instructions developed by Jones and Miller for the KINET Project, Ifakara, Tanzania).

There is currently great interest in the use of pyrethroid insecticides for the treatment of nets for malaria control. Many attempts at practical implementation in Africa have encountered difficulties in distributing the insecticide, and none of the delivery systems tried so far have proved both effective and sustainable in the African context. During the past year there has been growing interest in the concept of packaging the insecticide into single doses, so that net owners can treat their own nets at home. For the user, this method has the advantage of giving autonomy over when and where nets are treated. It also allows the dipping process to be integrated with the domestic washing routine. For the supplier, it avoids the problems associated with decanting small amounts of insecticide from a large bottle or drum, including spillage and adulteration of the insecticide.

There is, however, concern that the safety and efficacy of the process could be comprised if such single dose kits were made available without packaging and instructions that are appropriate for local conditions. Adequate attention must therefore be given to developing such packaging and instructions. In response to requests from many NGOs and donor agencies and in an attempt to ensure that home treatment is carried out safely and correctly we have compiled a list of the minimum information that should be made available with each home treatment kit.

This information should be presented in a way that is understandable and acceptable to the local population (i.e., in the local language and/or with pictures that are appropriate to the local situation). Our experience in East Africa suggests that both words and pictures are necessary.

THE PACKET:

The generic name of the insecticide

The formulation and concentration of the insecticide (e.g. 1% SC, 2.5% CS etc.)

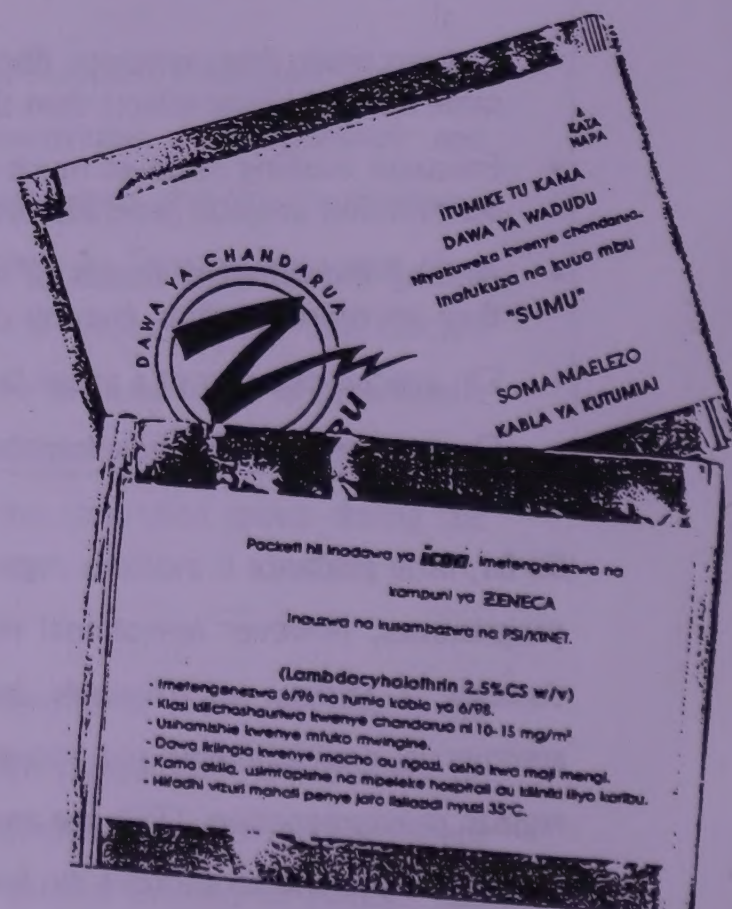
The concentration of active ingredient in the insecticide

The manufacturing date and expiry date

The instructions "POISON: DO NOT SWALLOW" (in the local language)

What it is to be used for, i.e. "Only for use on mosquito nets" (in the local language)

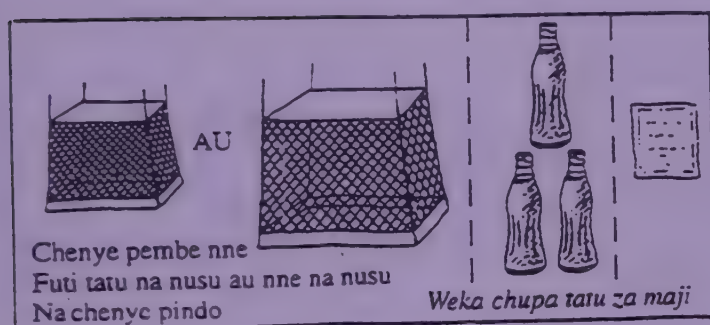
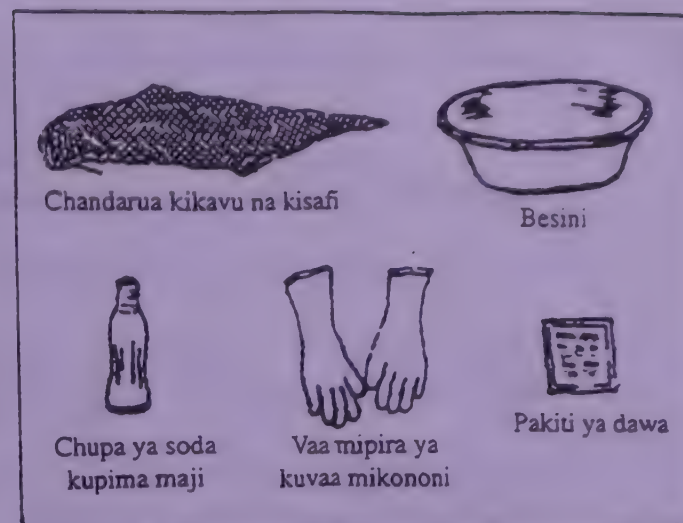
Any other information required under specific country regulations.



THE INSTRUCTIONS

- (i) A picture of all the equipment necessary for the dipping process (i.e., a container to measure the water for dilution, plastic gloves, a bowl to do the dipping in, the net and the insecticide);

NB. The measuring container must either be an object that is easily obtainable in the local community or it must be provided with the kit. If gloves are to be recommended then they should be supplied with the kit.



- (ii) Instructions that the net should be clean and dry.

- (iii) A description/illustration of how much water is required to dilute the insecticide.

NB. If there is more than one type of net available locally then the instructions must provide information on how much water is required for each type of net (e.g., nets with cotton roofs and borders require more water than nets that are entirely synthetic).

- (iv) Descriptions/illustrations of how to dip the net; i.e., put on gloves, measure water into bowl/bucket/container, add insecticide and mix well, put net in bowl/bucket/container and mix well to ensure the insecticide reaches all parts of the net, hang net on line/place on ground/bed, to dry.



- (v) Descriptions/illustrations of what to do when dipping is finished; i.e., where to dispose of gloves and empty insecticide container (e.g., pit latrine or bury), wash hands and dipping bowl with soap water.

In areas where nets are not familiar, the instructions may also need to contain a description/illustration of how to hang the net over the bed or sleeping place.



FIELD TESTING

Even when an initial draft of the packaging and the instructions has been prepared, it is still not ready to be released for routine use. First, it must be field tested. The aim of this testing is to check that local people with no prior experience or knowledge can understand the instructions and can use the kit in a manner that is both safe and effective. The best way is to give prototype kits to small groups of local residents, and to monitor their experiences by means of structured observations and focus groups. Details of how to conduct field testing for instructions will appear in the Handbook for ITN Project Managers (London School of Hygiene and Tropical Medicine).

HOW TO TREAT MOSQUITO NETS WITH INSECTICIDES

This section is based on the AHRTAG Directory, "Insecticide Treated Nets for Malaria Control", 1997.

Always use metric measurements: centimetre (cm), metre (m), millimetre (mm) millilitre (ml) and litre (l). All nets should be clean and dry.

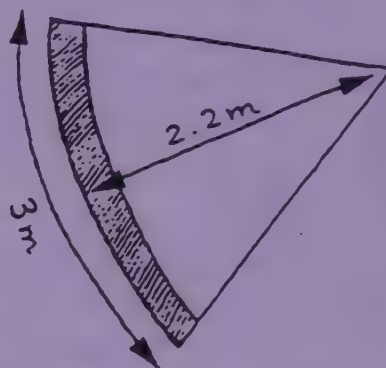
1. Calculate the area of the net, in square metres. Consider a conical net as a triangle and a square net as rectangles.

HOW TO MEASURE A MOSQUITO NET

Conical net

Lay the net flat.

- a) Measure the curved base (m).
- b) Measure the height (m).
- c) Multiply base x height = area of net.

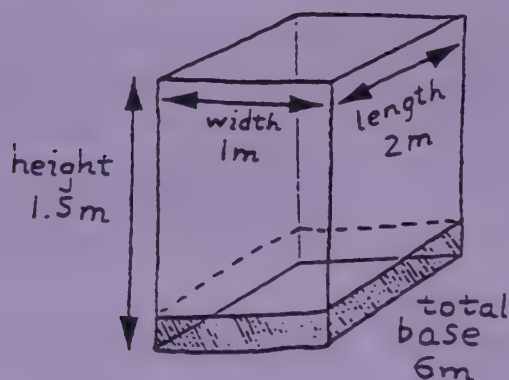


Total area of net $3 \times 2.2 = 6.6 \text{ m}^2$

Rectangular net

Hang the net up.

- a) Measure the area at the top = width x length.
- b) Measure the area around the sides = height x total distance around base of net.
- c) Add the two measurements together to find the total area of the net.



$$\text{a) } 1 \times 2 = 2 \text{ m}^2$$

$$\text{b) } 1.5 \times 6 = 9 \text{ m}^2$$

$$\text{Total area of net } 2 + 9 = 11 \text{ m}^2$$

2. Calculate the amount of water absorbed by the net, in ml or litres. Using a bucket and a measuring container, measure two litres of water into the bucket. Soak the net until it is totally wet. Carefully wring out the net over the bucket. When the net has stopped dripping, measure the water remaining in the bucket.

For example:

$$2 \text{ litres} - 1.3 \text{ litres} = 0.7 \text{ litres (700ml)}$$

original water in bucket - remaining water in bucket = water absorbed by the net

3. Calculate the amount of insecticide required.

- Check the recommended dosage of insecticide. Read the instructions on the bottle or check the table below.
- Check the concentration of the insecticide. This follows the name of the insecticide. For example, permethrin EC 50, contains 500g of insecticide in each litre; this is also known as a 50% solution.

Dosages of commonly used insecticides

(in mg of insecticides per square metre of material - polyester)

Compound and formulation	Dose (mg/sq metre)
Permethrin EC	200 - 500
Deltamethrin SC	15 - 25
Deltamethrin tablet	1 per net
Lambda-cyhalothrin CS	10 - 15
Cyfluthrin (oil in water emulsion) EW	30 - 50
Etofenprox EC	200
Alpha-cypermethrin WP	20

(Curtis 1996 WHO)

To calculate the amount of insecticide use the following formula:

$$\frac{\text{Dosage(mg)} \times \text{Area of Net (m}^2\text{)}}{\text{Concentration of Insecticide \%} \times 10}$$

For example:

If you want a dosage of 200mg/m² on a 11m² net and you are using Permethrin 50 (a 50% concentration contains 500g insecticide per litre) you would calculate the amount required as follows:

$$\frac{200 \times 11}{50 \times 10} = 4.4 \text{ ml insecticide}$$

If you have found that this specific net absorbs 0.7 litre (700ml) of water, add this amount of water to the insecticide to make a final mixture.

If more than one net is being treated (using the above example) multiply the amounts as follows:

No. of Nets	Insecticide (ml)	Water (litres)
1	4.4	0.7
10	44	7
20	88	14

4. Measure the amount of water and insecticide needed. Wide-mouth containers, such as an empty cooking fat container (1 kilo = approximately 1 litre), are best for measuring large amounts of water.

Insecticide can be measured using a 250g empty container which can be scored inside at 50ml intervals. For small amounts of insecticide a syringe could be used. The insecticide may dissolve the markings on the syringe so it is useful to score the outside with a knife.

5. Protective gloves must be worn.

6. Add the insecticide to the water and mix well. Treatment should be performed out-of-doors or in a well-ventilated area.

If you are treating a few individual nets you can place each net in a carrier bag add the insecticide and water solution, knead well and let the owners carry their net home in the bag.

7. Dip the net in the solution until it is thoroughly wet.

8. Wring the net out over a bowl and hang it up until it has stopped dripping.

9. Dry the net. They can be laid on beds and bedding (which will help to kill bedbugs) or dried outdoors. Do not place them in direct sunlight for more than a few hours.
10. Wash your hands and all equipment with soap and water.
11. Pour any waste insecticide down a pit latrine and NOT into a river or pond.

LABELS AND PACKAGING: WHAT TO LOOK FOR

INSECTICIDES

Trade names

A number of compounds are suitable for treating nets. In these examples the name ending in 'thrin' is the chemical name, while the name in brackets is the brand name. The most commonly-used ones are: permethrin (Imperator, Peripel), this is a pyrethroid, deltamethrin (K-othrine), lambda-cyhalothrin (Icon), alphacypermethrin (Fendona) and cyfluthrin (Solfac) are all alphacyano pyrethroids, etofenprox is a compound similar to permethrin.

Concentration

Following the product name is a number which refers to the concentration as a percentage. Products may be available in a number of different concentrations. Permethrin may be labeled 40:60 or 25:75; this refers to the ratio of two different isomers within the solutions. There appears to be no major difference in either the toxicity or performance of these two solutions.

Formulation

After the name and concentration are letters.

EC = emulsified concentrate; this formulation contains a solvent which has a characteristic smell (the insecticide is odorless). The solvent can be an irritant.

EW = water emulsion.

SC = suspension concentrate.

CS = capsule suspension; the insecticide and solvents are held in a water medium.

There are many water-based solutions but none for permethrin. CS, EW and SC formulations are based on water so the preparation contains lower levels of organic solvents, making them more user-friendly.

WP = wettable powder; not usually recommended for net treatment.

Tablets = the active ingredient is mixed with an inert carrier, with a bitter tasting agent, then moulded into a tablet. One tablet is enough for one net.

Warnings and instructions for use

Insecticides are potentially very hazardous if used incorrectly. Always read the instructions for use and follow the storage guidelines.

Quantity

Insecticides can be purchased in many different-sized containers. Bulk quantities are often cheaper but containers holding between one and five litres may be easier to use. There is growing interest in individual doses for home use. Different sized containers of the same insecticide may be subject to a different tariff or import charge - check with your local customs office.

Use by date

When ordering insecticide in bulk ask about expiry dates. Shipping may take a long time and you may want to use the insecticide over a number of years.

Public health use

The same insecticide may be available for both public health and agricultural use. Ensure you order and receive the right one as solvents used in the agricultural product range may be unsuitable for use on mosquito nets.

Training

If you are unfamiliar with using insecticides talk with your supplier, as may offer training and support as well as educational materials.

MOSQUITO NETS

Fabric

Polyester netting (is man-made knitted from multi-filament yarn) is the most common fabric for nets; it is light and does not absorb much water. Cotton cloth or netting soak up a lot of water but need the same concentration of treatment as polyester. Nets are also made from mono-filament yarns; a strong man-made fibre (like fishing line) that absorbs very little water.

Denier

Denier is the strength of the fibre used to make the mosquito net. The strongest is 100; anything below 70 is usually too weak and tears easily.

Mesh size

Mesh size is measured in either millimetres (mm), 1.5 to 2mm is normal for mosquito nets or in holes per square inch, for example 156 & 196 being industry standards .

Shape

The two most common shapes are round (or conical) and rectangular. Rectangular nets are usually seen as being more spacious, which means less contact with the net by the occupants. Where as conical nets are often seen as easier to hang. Wedge-shaped, triangular, and tent-like nets can also be made.

Colour

Mosquito nets can be any colour. Now that people are using insecticide and washing their nets less frequently, darker-coloured nets are becoming more popular.

Size

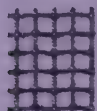
Some mosquito nets indicate the size of bed that they will cover in metres or feet. Others state small, medium, and large, or single or double. If possible, look at the net before you buy it. If you are buying in bulk, try to get samples to test where they will actually be used.

Planning

Most manufacturers will supply nets in specific colours, shapes and sizes for particular projects, but they may have to be made to order. Start a dialogue early, as realistically it may take 4 – 6 months for a large shipment of nets to be made, transported and delivered, as economically as possible.

Suppliers and Manufacturers of Mosquito Nets and Insecticides by Country of Location

Benin



1. Echange pour l'Organisation et la Promotion des Petits Entrepreneurs (ECHOPPE)

Contact: Mr. B. Ott

Countries supplied:

Benin

Address: BP 3254
Cotonou
BENIN
Tel: (229) 310-969
Fax: (229) 310-969 / 315-352
E-mail:
echoppe@francemultimedia.fr

Products:
Mosquito nets.

Type of business:
Supplier of mosquito nets.

Botswana

2. Agrichem



Contact:

Countries supplied:

Botswana

Address: P.O. Box 807
Francistown
Botswana
Tel: (267) 214-211
Fax: (267) 214-211

Products:
SOLFAC EW (contains 50g/l cyfluthrin). The EW (emulsion in water) formulation is suited to the impregnation of mosquito nets and curtains. It ensures that the active ingredient binds tightly to all fabric types and it contains no organic solvents. Recommended dosage 50 mg a.i./m² which will kill all mosquitoes (including nuisance) for 6 - 9 months.

Type of business:
Distributors of insecticides.

3. Agrichem



Contact: Mr. A.P. Johnson

Countries supplied:

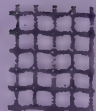
Botswana

Address: P.O. Box 428
Gaborone
Botswana

Type of business:
Suppliers of insecticides.

Products:
SOLFAC EW (contains 50g/l cyfluthrin). The EW (emulsion in water) formulation is suited to the impregnation of mosquito nets and curtains. It ensures that the active ingredient binds tightly to all fabric types and it contains no organic solvents. Recommended dosage 50 mg a.i./m² which will kill all mosquitoes (including nuisance) for 6 - 9 months.

4. Chemdol (Pty) Ltd



Contact: Mike Clark

Countries supplied:

Botswana

Address: P/Bag BR 63
Gaborone
Botswana
Tel: (267) 319-565
Fax: (267) 319566

Type of business:
Distributors of mosquito nets & insecticide.

Products:
All types of mosquito nets & netting.

ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or (available during 1998) sachets of 6 ml for individual net treatment. Icon CS is applied at low application rates (10-15 mg ai/m²), remains effective for many months and withstands washing

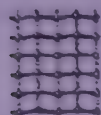


Insecticide supplier/
manufacturer



Nets and netting supplier/
manufacturer

Burkina Faso



5. Sangatex

Contact: Sanga Moussa, Directeur Commercial

Countries supplied:
Burkina Faso

Address: B.P. 53
Bobo Dioulasso
Burkina Faso
Tel: (226) 98-19-70
Fax: (226) 98-15-74

Products:
Netting

Type of business:
Textile supplier.

6. Sapin B

Contact: Alphonse Bonou

Countries supplied:
Burkina Faso

Address: P.O. Box 03 B.P. 1757
Ouagadougou 03
Burkina Faso
Tel: (226) 307-488
Fax: (226) 307-491

Type of business:
Insecticide supplier.

Products:
ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or (available during 1998) sachets of 6 ml for individual net treatment. Icon CS is applied at low application rates (10-15 mg ai/m²), remains effective for many months and withstands washing.

7. Senefura

Contact: Yves Duplessis

Countries supplied:
Africa

Address: BP 2579
Bobo Dioulasso
Burkina Faso

Type of business:
1) Supplier of insecticide. 2) Supplier of bednets

Products:
1) ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or (available during 1998) sachets of 6 ml for individual net treatment. Icon CS is applied at low application rates (10-15 mg ai/m²), remains effective for many months and withstands washing.

2) Bednets

Cameroon

8. Agrochem

Contact: Emmanuel Fillion, Technical Manager, Semi Dip, General Manager

Countries supplied:
Cameroun, Chad, Central African Rep.

Address: B.P. 5624
Douala
Cameroon
Tel: (237) 425-871
Fax: (237) 422-691
E-mail:
AGROCHEM@LOM.CAMNET.CM

Products:
ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or sachets of 6 ml for individual net treatment (available during 1998). Icon CS is applied at low application rates (10-15mg ai/m²), remains effective for many months and withstands washing.

Type of business:
Distribution of Public Health Products in Cameroun





9. Hoechst Schering AgrEvo SA

Contact: Jean Biakath, Regional Manager
Central Africa
Address: Bureau de Liaison de Cameroon, B.P.
269
Douala Littoral
Cameroon
Tel: (237) 421-087
Fax: (237) 428-284
Type of business:
Environmental Health (Public Health)

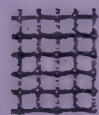
Countries supplied:

Central Africa: Cameroon, Chad, Rwanda, Congo, Burundi,
Democratic Republic of Congo, Equatorial, Ethiopia, Guinea,
Sao Tome and Principe, Gabon.

Products:

K-O Tab - deltamethrin tablet containing 400mg deltamethrin.
1 tablet to treat 1 net.
K-Othrine SC - deltamethrin 1% suspension concentrate
supplied in bulk (1 to 20 litre packs) or in sachets (1 sachet per
net).
Permethrin - permethrin 10% and 55% emulsifiable
concentrate formulations supplied in bulk (1 to 20 litres) or in
sachets.

Canada



10. Thai Occidental Ltd.

Contact: Brian Vien, Sales Manager
Address: 5334 Yonge Street, Suite 907
Toronto Ontario
Canada
Tel: (416) 496-2490
Fax: 1-(416) 496-2490
Type of business:
Manufacturer and supplier of Mosquito Netting
& Ready Made Nets

Countries supplied:

Africa

Products:

Premium quality ready-made mosquito nets and netting.
Available treated or untreated.
Rectangular, circular and custom styles.
Premium quality 75 Denier knitted polyester mesh count 232
holes per square inch
Premium quality 54 NM woven cotton mesh count 325 holes
per square inch provides environment friendly protection.

Cote d Ivoire



11. ALM AO

Contact: Karim Ayad, General Manager
Address: B.P. 3623
Abidjan
Cote d Ivoire
Tel: (225) 249-611
Fax: (225) 258-818
Type of business:
Distribution of Public Health Products in Ivory
Coast

Countries supplied:

Ivory Coast

Products:

ICON CS (2.5% lambda-cyhalothrin): a water-based
micro-encapsulated formulation developed for net treatment,
supplied in 500 ml autodose bottles or sachets of 6 ml for
individual net treatment (available during 1998). Icon CS is
applied at low application rates (10-15mg ai/m²), remains
effective for many months and withstands washing.

12. SOFACO (Groupe AgrEvo)

Contact: P. Tragin
Address: BP 1216
Abidjan 01
Cote d Ivoire
Tel: (225) 251-525
Fax: (225) 359-436/ 244-350
Type of business:
Supplier of environmental health products.

Countries supplied:

Benin, Burkina Faso, Côte D'Ivoire, Mali, Nigeria, Togo.

Products:

K-O Tab - deltamethrin tablet containing 400mg deltamethrin.
1 tablet to treat 1 net.
K-Othrine SC - deltamethrin 1% suspension concentrate
supplied in bulk (1 to 20 litre packs) or in sachets (1 sachet per
net).
Permethrin - permethrin 10% and 55% emulsifiable
concentrate formulations supplied in bulk (1 to 20 litres) or in
sachets.



Egypt

13. AgrEvo Egypt

Contact: S. Afifi

Address: 4 Wisa Wasset Street
P.O. Box 243, El Orman
Cairo
Egypt
Tel: (202) 572-997 / 6500
Fax: (202) 573-4262

Type of business:
Supplier of environmental health products.

Countries supplied:

Egypt, Sudan

Products:

K-O Tab - deltamethrin tablet containing 400mg deltamethrin.
1 tablet to treat 1 net.

K-Othrine SC - deltamethrin 1% suspension concentrate
supplied in bulk (1 to 20 litre packs) or in sachets (1 sachet per
net).

Permethrin - permethrin 10% and 55% emulsifiable
concentrate formulations supplied in bulk (1 to 20 litres) or in
sachets.

Ethiopia

14. AgrEvo Horn of Africa PLC

Contact: Afework Tadesse, General Manager

Address: P.O. Box 41033
Addis Ababa Region 14
Ethiopia
Tel: (251-1) 71-06-44
Fax: (251-1) 710-547
E-mail: AgrEvo@telecom.net.et

Type of business:
Marketing of Agricultural and Environmental
Health Chemicals

Countries supplied:

Ethiopia, Eritrea, Djibouti, Somalia

Products:

K-O Tab - deltamethrin tablet containing 400mg deltamethrin.
1 tablet to treat 1 net.

K-Othrine SC - deltamethrin 1% suspension concentrate
supplied in bulk (1 to 20 litre packs) or in sachets (1 sachet per
net).

Permethrin - permethrin 10% and 55% emulsifiable
concentrate formulations supplied in bulk (1 to 20 litres) or in
sachets.

15. General Chemicals and Trading P.L.C.

Contact: Marcos G. Mariam, General Manager

Address: P.O. Box 5620, House Number
933/01, Africa Avenue
Woreda 18 Kebele 27
Addis Ababa
Ethiopia
Tel: (251-1) 510-287 / 88
Fax: (251-1) 514-979

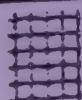
Type of business:
Importer, Distributor, Retailor, Spraying Service,
etc.

Countries supplied:

Ethiopia, Eritrea, Djibouti and Somalia

Products:

ICON CS (2.5% lambda-cyhalothrin): a water-based
micro-encapsulated formulation developed for net treatment,
supplied in 500 ml autodose bottles or (available during 1998)
sachets of 6 ml for individual net treatment. Icon CS is applied
at low application rates (10-15 mg ai/m²), remains effective
for many months and withstands washing.



France



16. ALM International

Contact: Pierre Lephilbert, General Manager

Address: 23 Chemin de la Foret
74200 Thonon le Bains
France
Tel: (33)450-263-464
Fax: (33) 450-265-903
E-mail:
ALMTHONON@COMPUSERVE.COM

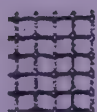
Type of business:
Distribution of Public Health Products (in Francophone Africa)

Countries supplied:

Mali, Niger, Burkina Faso, Guinea, Ivory Coast, Benin, Togo, Cameroun, Central Republic Africa, Gabon, Madagascar

Products:

ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or sachets of 6 ml for individual net treatment (available during 1998). Icon CS is applied at low application rates (10-15mg ai/m²), remains effective for many months and withstands washing.



17. Hoechst Schering AgrEvo SA

Contact: G. Ratle / J. Charpie

Address: 163 Gambetta
75020 Paris
France
Tel: (33) 140-323-500
Fax: (33) 140-323-525

Type of business:
1) Manufacturer and supplier of environmental health products. 2) Supplier of ready-made nets.

Countries supplied:

French speaking Africa, Nigeria, Gambia, Ghana

Products:

1) Insecticide: K-O Tab - deltamethrin tablet containing 400mg deltamethrin. 1 tablet to treat 1 net.

K-Othrine SC - deltamethrin 1% suspension concentrate supplied in bulk (1 to 20 litre packs) or in sachets (1 sachet per net).

Permethrin - permethrin 10% and 55% emulsifiable concentrate formulations supplied in bulk (1 to 20 litres) or in sachets.

2) Nets: Polyester nets in various sizes and colours as required. Supplied untreated or treated with deltamethrin or permethrin (public health grade 25:75 cis: trans ratio).

Gabon



18. Gabonaise de Chimie (GCIAE)

Contact: Dominique Grimaldi, General Manager

Address: B.P. 20375
Libreville
Gabon
Tel: (241) 764-899 /720-656
Fax: (241) 747-067
E-mail:
101663.2726@compuserve.com

Type of business:
Distribution of Public Health Products in Gabon

Countries supplied:

Gabon, Congo, Saotome and Principe

Products:

ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or sachets of 6 ml for individual net treatment (available during 1998). Icon CS is applied at low application rates (10-15mg ai/m²), remains effective for many months and withstands washing.



Germany

19. Bayer AG

Contact: Dr. G. Hesse

Address: Vector Control Consulting Group,
BG Animal Health
Leverkusen, D-51368
Germany
Tel: (49-2173) 383-207
Fax: (49-2173) 383-684
E-mail:
Gerhard.Hesse.GH@bayer-ag.de

Type of business:
Manufacturer and supplier of insecticides.

Countries supplied:
Africa

Products:
SOLFAC EW (contains 50g/l cyfluthrin). The EW (emulsion in water) formulation is suited to the impregnation of mosquito nets and curtains. It ensures that the active ingredient binds tightly to all fabric types and it contains no organic solvents. Recommended dosage 50 mg a.i./m² which will kill all mosquitoes (including nuisance) for 6 - 9 months.

Ghana

20. Chemagro

Contact: Victor Adossi, General Manager

Address: Too Yitsu Road, Ring Road West
Industrial Area
Accra
Ghana
Tel: (233-21) 712-345
Fax: (233-21) 225-105

Type of business:
Distribution of Public Health Products in Ghana

Countries supplied:
Ghana

Products:
ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or sachets of 6 ml for individual net treatment (available during 1998). Icon CS is applied at low application rates (10-15mg ai/m²), remains effective for many months and withstands washing.

21. Huge Limited

Contact: A. Yaw Berko

Address: 6 West Farrar Avenue
P.O. Box 13534
Accra
Ghana
Tel: (233) 228-091
Fax: (233) 228-091

Type of business:
Distributor of insecticides.

Countries supplied:
West Africa

Products:
SOLFAC EW (contains 50g/l cyfluthrin). The EW (emulsion in water) formulation is suited to the impregnation of mosquito nets and curtains. It ensures that the active ingredient binds tightly to all fabric types and it contains no organic solvents. Recommended dosage 50 mg a.i./m² which will kill all mosquitoes (including nuisance) for 6 - 9 months.

22. Marcrich GH Ltd.

Contact: Richard Marc Owiredo, Managing Director

Address: P.O. Box AH 133, Achimota
Accra
Ghana
Tel: (233-21) 400-213
Fax: (233-21) 224-199
E-mail:
marcrich@africaonline.com.gh

Type of business:
Supplier of Mosquito nets and insecticide

Countries supplied:
Ghana

Products:
Colour: Standard white, all other colours upon request.
Fabric: knitted 100% polyester, multi-filament fibres
Mesh: 156, Denier: 75-100, Shapes: rectangular and conical

ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or sachets of 6 ml for individual net treatment (available during 1998). Icon CS is applied at low application rates (10-15mg ai/m²), remains effective for many months and withstands washing.

Guinea



23. Saref International

Contact: Aboukhalil Aref, Director General

Countries supplied:
Guinea

Address: B.P. 3915
Conakry
Guinea
Tel: (224) 451-496 / 411-303
Fax: (224) 414-426 / 411-303
E-mail: SAREF@MIRINET-NET.gn

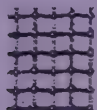
Type of business:

Produits et materiels Phytosanitaires, insecticides
sante publique, materiels de protection, materiels
de distribution de carburants

Products:

ICON CS (2.5% lambda-cyhalothrin): a water-based
micro-encapsulated formulation developed for net treatment,
supplied in 500 ml autodose bottles or (available during 1998)
sachets of 6 ml for individual net treatment. Icon CS is applied
at low application rates (10-15 mg ai/m²), remains effective
for many months and withstands washing.

India



24. Biotech International Limited

Contact: Ms. Shabnam Singhal

Countries supplied:
Africa

Address: "VIPPS Centre", 2, Local Shopping
Centre
Block EFGH, Masjid Moth, Greater
Kailash II
New Delhi
India
Tel: (91-11) 643-0546 / 0547
Fax: (91-11) 646-9166 / 647
E-mail: compin@ndb.vsnl.net.in

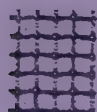
Type of business:

Manufacturing of impregnted mosquito nets

Products:

Mosquito nets: white or coloured
(single, double and family), pre-treated on request.

Japan



25. Sumitomo Corporation

Contact: Mutsuhiro Nagamatsu

Countries supplied:
Africa

Address: 7-28, Kitahama 4-chome, Chuo-ku
Osaka
Japan
Tel: (81-6) 220-7433
Fax: (81-6) 220-7787
E-mail:
mutsuhiro.nagamatsu@sumitomocor
p.co.jp

Type of business:

International trading in household and public
health.

Products:

The Olyset Net is a new type of insecticide-incorporated net,
which contains permethrin.



Kenya

26. AgrEvo East Africa Limited

Contact: Ambrose Anguka, Brand Manager

Address: The Chancery Valley, Road
Box 60022
Nairobi
Kenya
Tel: (254-2) 717-735
Fax: (254-2) 712-146

Type of business:

Supplier of environmental health products.

Countries supplied:

Kenya, Tanzania, Uganda

Products:

K-O Tab - deltamethrin tablet containing 400mg deltamethrin.
1 tablet to treat 1 net.

K-Othrine SC - deltamethrin 1% suspension concentrate
supplied in bulk (1 to 20 litre packs) or in sachets (1 sachet per
net).

Permethrin - permethrin 10% and 55% emulsifiable
concentrate formulations supplied in bulk (1 to 20 litres) or in
sachets.

27. Bayer East Africa Ltd.

Contact: Chris F. Pienaar

Address: P.O. Box 30321
Nairobi
Kenya
Tel: (254-2) 531-272 / 531-275
Fax: (254-2) 544-917

Type of business:

Supplier of insecticides.

Countries supplied:

East Africa

Products:

SOLFAC EW (contains 50g/l cyfluthrin). The EW (emulsion
in water) formulation is suited to the impregnation of mosquito
nets and curtains. It ensures that the active ingredient binds
tightly to all fabric types and it contains no organic solvents.
Recommended dosage 50 mg a.i./m² which will kill all
mosquitoes (including nuisance) for 6 - 9 months.

28. Cyanamid Transnational Corporation

Contact: Michael Harrold, Managing Director

Address: Shell & BP House, 3rd Floor
Harambee Avenue, P.O. Box 47341
Nairobi
Kenya
Tel: (254-2) 336-311
Fax: (254-2) 330-733
E-mail: cyanamid@swiftkenya

Type of business:

Insecticides

Countries supplied:

All Africa

Products:

Fendona* alphacypermethrin insecticide products for adult
mosquito control by residual spraying and bednet
impregnation.

29. Dodhia Traders (Kenya) Ltd.

Contact: Mahendra Dodhia, Director

Address: P.O. Box 42686
Nairobi
Kenya
Tel: (254-2) 222-961 / 223-248
Fax: (254-2) 225-595

Type of business:

Wholesalers

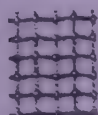
Countries supplied:

Kenya, Sudan, Somalia, Congo

Products:

Mosquito nets and netting.





30. Mission for Essential Drugs and Supplies (MEDS)

Contact: Mrs. Jane Masiga

Address: P.O. Box 14059
Nairobi
Kenya
Tel: (254-2) 542-290 / 545-062
Fax: (254-2) 545-062
E-mail:
sahibu@users.africaonline.co.ke

Type of business:

Provides Church-sponsored health facilities and non-profit oriented NGOs with a reliable supply of good quality essential drugs and medical supplies.

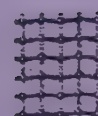
Countries supplied:

Kenya, Republic of Congo, Rwanda, Sudan, Somalia, Ethiopia, Uganda and Tanzania.

Products:

1. Mosquito Bed Nets: for double beds: 5X6 feet, square, polyester, green. For single beds: 3X6 feet, round, polyester, white.

2. Treating Chemicals: - Permethrine (Peripel 55%), 1 Litre packs. - Delthamethrin



31. Siamdutch Mosquito Netting Co., Ltd.

Contact: Michael Oddenyo, General Manager

Address: Industrial Area - Baricho Road
P.O. Box 41637
Nairobi
Kenya
Tel: (254-2) 555-104 / 554-373
Fax: (254-2) 557-926
E-mail: siamnet@africaonline.co.ke

Type of business:

Manufacturer and supplier of ready-made mosquito bed-nets

Countries supplied:

Africa

Products:

Mosquito bed-nets - various sizes and shapes (rectangular and conical, wedge) - Impregnated and non-impregnated nets with permethrin and deltamethrin (public health grade).

Volume discounts - on order basis

Pre-treatment - on request

32. Twiga Chemical Industries

Contact: Evans Nyaga Njambere, Technical Manager

Address: Box 30172
Nairobi
Kenya
Tel: (254-2) 338-333
Fax: (254-2) 860-653

Type of business:

Suppliers and formulators of agrochemicals

Countries supplied:

Kenya, Uganda & Tanzania

Products:

ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or (available during 1998) sachets of 6 ml for individual net treatment. Icon CS is applied at low application rates (10-15 mg ai/m²), remains effective for many months and withstands washing.

Madagascar

33. A.C.M.

Contact: Frederic Sancho, General Manager

Address: PK 11.5 ambodihady Route Digue
Ikopa
Antanarivo
Madagascar
Tel: (261-20) 222-5249
Fax: (261-20) 222-5259
E-mail: acm@bow.dts.mg

Type of business:

Distribution of Public Health Products in Madagascar

Countries supplied:

Madagascar

Products:

ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or sachets of 6 ml for individual net treatment (available during 1998). Icon CS is applied at low application rates (10-15 mg ai/m²), remains effective for many months and withstands washing.



34. F.I.A.V.A.M.A.

Contact: Madame Randriamanalina-Ralalason

Countries supplied:

Madagascar

Address: 134 rue Rainandriamampandry
P.O. Box 4170
Antananarivo 101
Madagascar
Tel: (261) 227-604
Fax: (261) 225-5007

Type of business:
Distributors of insecticides.

Products:

SOLFAC EW (contains 50g/l cyfluthrin). The EW (emulsion in water) formulation is suited to the impregnation of mosquito nets and curtains. It ensures that the active ingredient binds tightly to all fabric types and it contains no organic solvents. Recommended dosage 50 mg a.i/m² which will kill all mosquitoes (including nuisance) for 6 - 9 months.

35. Hoechst Madagascar

Contact: John McCloy, General Manager

Countries supplied:

Madagascar

Address: B.P. 3917
Ankorondrana Rue
Ravoninahitriniarivo
Antananarivo 101
Madagascar
Tel: (261) 224-748
Fax: (261) 225-317

Type of business:
Supplier of environmental health products.

Products:

K-O Tab - deltamethrin tablet containing 400mg deltamethrin. 1 tablet to treat 1 net.

K-Othrine SC - deltamethrin 1% suspension concentrate supplied in bulk (1 to 20 litre packs) or in sachets (1 sachet per net).

Permethrin - permethrin 10% and 55% emulsifiable concentrate formulations supplied in bulk (1 to 20 litres) or in sachets.

Malawi

36. Farmers Organisation Ltd.

Contact: R.S. Renshaw, Managing Director

Countries supplied:

Malawi

Address: P.O. Box 1916
Plot No. SW8/597/6 Off Kenyatta
Drive, Chitawira
Blantyre
Malawi
Tel: (265) 623-088
Fax: (265) 673-452

Type of business:
Distributors of insecticides.

Products:

SOLFAC EW (contains 50g/l cyfluthrin). The EW (emulsion in water) formulation is suited to the impregnation of mosquito nets and curtains. It ensures that the active ingredient binds tightly to all fabric types and it contains no organic solvents. Recommended dosage 50 mg a.i/m² which will kill all mosquitoes (including nuisance) for 6 - 9 months.

Mali

37. Nako Fura

Contact: Adel Korban, General Manager

Countries supplied:

Mali

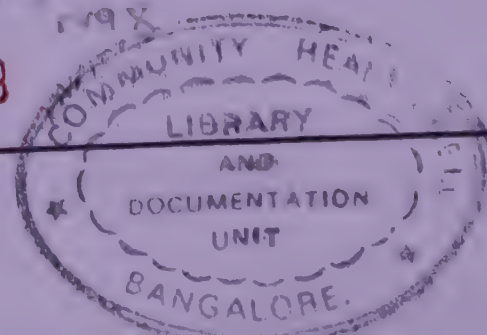
Address: B.P. E2110 Quartier Hyppodrome -
Face AMB Pays Bas
- Porte 216, Rue 247
Bamako
Mali
Tel: (223) 239-875
Fax: (223) 234-851

Type of business:
Distribution of Public Health Products in Mali

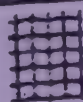
Products:

ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or sachets of 6 ml for individual net treatment (available during 1998). Icon CS is applied at low application rates (10-15mg ai/m²), remains effective for many months and withstands washing.

05439



Insecticide supplier/
manufacturer



Nets and netting supplier/
manufacturer

Mauritius

38. Roger Fayd Herbe & Co. Ltd.

Contact: Mr. J.B. Clency-Dove

Address: P.O. Box 166
Port Louis
Mauritius
Tel: (230) 208-1806
Fax: (230) 208-8545

Type of business:
Distributors of insecticides.

Countries supplied:
Mauritius

Products:
SOLFAC EW (contains 50g/l cyfluthrin). The EW (emulsion in water) formulation is suited to the impregnation of mosquito nets and curtains. It ensures that the active ingredient binds tightly to all fabric types and it contains no organic solvents. Recommended dosage 50 mg a.i./m² which will kill all mosquitoes (including nuisance) for 6 - 9 months.

Mozambique

39. Sociedade Mocambicana de Prontos Agroquimicos, Lda

Contact: Mrs. V. Pantazis

Address: Caixa Postal 1137
Maputo
Mozambique
Tel: (258-1) 427-429 / 423-390
Fax: (258-1) 425-603 / 3560

Type of business:
Distributors of insecticides.

Countries supplied:
Mozambique

Products:
SOLFAC EW (contains 50g/l cyfluthrin). The EW (emulsion in water) formulation is suited to the impregnation of mosquito nets and curtains. It ensures that the active ingredient binds tightly to all fabric types and it contains no organic solvents. Recommended dosage 50 mg a.i./m² which will kill all mosquitoes (including nuisance) for 6 - 9 months.

40. Sogrep

Contact:

Address: Caixa Postal 487
Sorep
Maputo
Mozambique
Tel: (258-1) 429-978
Fax: (258-1) 429-112

Type of business:
Distributors of insecticides.

Countries supplied:
Mozambique

Products:
SOLFAC EW (contains 50g/l cyfluthrin). The EW (emulsion in water) formulation is suited to the impregnation of mosquito nets and curtains. It ensures that the active ingredient binds tightly to all fabric types and it contains no organic solvents. Recommended dosage 50 mg a.i./m² which will kill all mosquitoes (including nuisance) for 6 - 9 months.

Namibia

41. Erongo Agencies

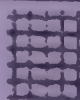
Contact: Mr. Thian Van der Walt

Address: P.O. Box 5235
Windhoek
Namibia
Tel: (264-61) 249-172
Fax: (264-61) 249-173

Type of business:
Distributors of insecticides.

Countries supplied:
Namibia

Products:
SOLFAC EW (contains 50g/l cyfluthrin). The EW (emulsion in water) formulation is suited to the impregnation of mosquito nets and curtains. It ensures that the active ingredient binds tightly to all fabric types and it contains no organic solvents. Recommended dosage 50 mg a.i./m² which will kill all mosquitoes (including nuisance) for 6 - 9 months.



Niger

42. Agrimex

Contact: I. Mouddour

Address: BP 10.091
Niamey
Niger
Tel: (227) 740-781
Fax: (227) 740-748

Type of business:

Supplier of insecticides.

Countries supplied:

Niger

Products:

ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or (available during 1998) sachets of 6 ml for individual net treatment. Icon CS is applied at low application rates (10-15 mg ai/m²), remains effective for many months and withstands washing.

Nigeria

43. C. Zard & Co. Limited

Contact:

Address: 184, Adeniji Adele Road
Idumagbo
Lagos
Nigeria
Tel: (234-1) 266-7584
Fax: (234-1) 266-7584

Type of business:

Local Suppliers

Countries supplied:

Nigeria

Products:

ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or (available during 1998) sachets of 6 ml for individual net treatment. Icon CS is applied at low application rates (10-15 mg ai/m²), remains effective for many months and withstands washing.

Senegal

44. AgrEvo Bureau de Liaison

Contact: B. N'Diaye

Address: Roussel Senegal
BP 1655
5 rue Sandinery
Dakar
Senegal
Tel: (221) 216-474
Fax: (221) 229-467

Type of business:

Supplier of environmental health products.

Countries supplied:

Cape Verde, Gambia, Guinea, Guinea Bissau, Mauritania, Senegal

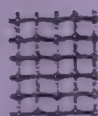
Products:

K-O Tab - deltamethrin tablet containing 400mg deltamethrin.
1 tablet to treat 1 net.

K-Othrine SC - deltamethrin 1% suspension concentrate supplied in bulk (1 to 20 litre packs) or in sachets (1 sachet per net).

Permethrin - permethrin 10% and 55% emulsifiable concentrate formulations supplied in bulk (1 to 20 litres) or in sachets.

South Africa



45. AgrEvo South Africa

Contact: A.R. Pope

Address: P.O. Box 6065
Halfway House 1685, Midrand
Johannesburg
South Africa
Tel: (27-11) 313-8361
Fax: (27-11) 313-8200

Type of business:

1) Manufacturer and supplier of environmental health products. 2) Supplier of ready-made nets.

Countries supplied:

Africa

Products:

1) K-O Tab - deltamethrin tablet containing 400mg deltamethrin. 1 tablet to treat 1 net. K-Othrine SC - deltamethrin 1% suspension concentrate supplied in bulk (1 to 20 litre packs) or in sachets (1 sachet per net). Permethrin - permethrin 10% and 55% emulsifiable concentrate formulations supplied in bulk (1 to 20 litres) or in sachets.

2) Polyester nets in various sizes and colours as required. Supplied untreated or treated with deltamethrin or permethrin (public health grade 25:75 cis: trans ratio).



46. Bayer (PTY) LTD

Contact: Mr. Derek Bartlett

Address: Animal & Environmental Health
P.O. Box 143, Isando 1600
Johannesburg
South Africa
Tel: (27-11) 921-5474
Fax: (27-11) 921-5379
E-mail: DEREKB@BAYER.CO.ZA

Type of business:

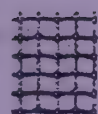
Manufacturer and supplier of insecticides.

Countries supplied:

Africa

Products:

SOLFAC EW (contains 50g/l cyfluthrin). The EW (emulsion in water) formulation is suited to the impregnation of mosquito nets and curtains. It ensures that the active ingredient binds tightly to all fabric types and it contains no organic solvents. Recommended dosage 50 mg a.i/m² which will kill all mosquitoes (including nuisance) for 6 - 9 months.



47. Chemdol CC

Contact: Guy Williams, Managing Director

Address: P.O. Box 890
Petersvale 2151
South Africa
Tel: (27-11) 706-7273
Fax: (27-11) 706-5465
E-mail: chemdol@icon.co.za
WEB site:
<http://chemdol.hypermart.net>

Type of business:

1) Supplier of insecticide products suitable for treatment of mosquito nets. 2) Manufacturer of mosquito nets and netting.

Countries supplied:

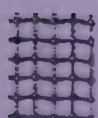
Africa, South Africa, Swaziland

Products:

ICON insecticide products based on lambda-cyhalothrin, including a new micro-encapsulated formulation (CS) developed especially for mosquito net treatment IMPERATOR (permethrin) products also available.

Mosquito nets: rectangular, conical. Standard sizes and made to order.

Volume discounts available. Pre-treatment on request.



48. Earth Holdings Trading as Tropical Mosquito Nets

Contact: Ms. Angela Radford

Address: P.O. Box 942
Durban Natal
South Africa
Tel: (27-31) 286-310
Fax: (27-31) 286-310
E-mail: mozznets@iafrica.com

Type of business:

Manufacturer and supplier of mosquito nets.

Countries supplied:

South Africa, Namibia, Botswana, Mozambique, Zambia, Seychelles

Products:

Practical and decorative mosquito nets for all size beds in conical and rectangular designs made from SABS approved textured polyester, denier 150 with a lifespan of +10 years.





49. Ninian and Lester, Textile Division

Contact: Richard Fisher, Director

Address: P.O. Box 10282, Ashwood 3605
Durban Kwazulu Natal
South Africa
Tel: (27-31) 700-4211
Fax: (27-31) 700-4193

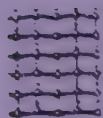
Type of business:
Textile manufacturer.

Countries supplied:

South Africa, Namibia, Botswana., Zimbabwe, Mauritius, Malawi

Products:

We produce textiles including a wide range of curtaining and industrial fabrics.



50. Philotex (Pty) Ltd

Contact: Mr. Derrick Van Der Merwe

Address: P.O. Box 19
Randfontein Gauteng
South Africa
Tel: (27-11) 412-2910 / 6
Fax: (27-11) 412-3704

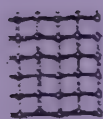
Type of business:
Textile manufacturer.

Countries supplied:

South Africa

Products:

Manufacturer of mosquito netting for the manufacture of mosquito nets.



51. Sunsmart Products (PTY) Ltd

Contact: John Bailey, General Manager

Address: 38 Buro Crescent
Mayville
4091 Durban Kwazulu Natal
South Africa
Tel: (27-31) 207-2327
Fax: (27-31) 207-2384
E-mail: nsnint@iafrica.com

Type of business:
Manufacturer of mosquito nets.

Countries supplied:

Africa

Products:

Mosquito nets using polyester 75 Denier 12X13 Mesh - 3 types ie: 1) Rectangular for bulk distribution, 2) Conical with a spring wire spreader, 3) Self-supporting, free-standing units for travellers.

Swaziland

52. Farm Chemicals

Contact: W. Long

Address: Box 1554
Manzini
Swaziland

Type of business:
Distributors of insecticides.

Countries supplied:

Swaziland

Products:

SOLFAC EW (contains 50g/l cyfluthrin). The EW (emulsion in water) formulation is suited to the impregnation of mosquito nets and curtains. It ensures that the active ingredient binds tightly to all fabric types and it contains no organic solvents. Recommended dosage 50 mg a.i./m² which will kill all mosquitoes (including nuisance) for 6 - 9 months.



Tanzania



53. Bytrade

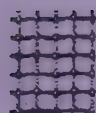
Contact:

Address: Upanga, P.O. Box 3491
Dar-es-Salaam
Tanzania

Type of business:
Distributors of insecticides.

Countries supplied:
Tanzania

Products:
SOLFAC EW (contains 50g/l cyfluthrin). The EW (emulsion in water) formulation is suited to the impregnation of mosquito nets and curtains. It ensures that the active ingredient binds tightly to all fabric types and it contains no organic solvents. Recommended dosage 50 mg a.i./m² which will kill all mosquitoes (including nuisance) for 6 - 9 months.



54. Sunflag (Tanzania) Ltd

Contact: Arun Seth, General Manager

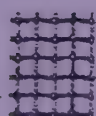
Address: P.O. Box 3123
Arusha
Tanzania
Tel: (255) 57-6303 /8023
Fax: (255) 57-8210
E-mail: sunflatz@eoltz.com

Type of business:
Manufacturers of ready-made nets and netting fabric and other textile products.

Countries supplied:
Tanzania, Uganda, Kenya, Zambia & Malawi.

Products:
100 % Polyester Round (3.5' X 6' X 5', 5' X 6' X 5', 6' X 6' X 7')
Square (4' X 6' X 5', 6' X 6' X 5')
Denier 75, White

Thailand



55. Siamdutch Mosquito Netting Co. Ltd

Contact: Marcel Dubbelman, Executive Director

Address: 15 Sukhumvit Soi 33
Bangkok 10110
Thailand
Tel: (66-2) 258-5663
Fax: (66-2) 259-5084
E-mail: info@siamdutch.com
WEB site: <http://www.siamdutch.com>

Type of business:
Manufacturing world wide distribution of netting mosquito nets

Countries supplied:
Africa

Products:
1) Netting material
2) Mosquito nets - any size - rectangular and circular, denier range 40, 75 100
3) Impregnated (treated) netting or mosquito nets

Togo



56. Chimagro

Contact: Victor Adossi, General Manager

Address: B.P. 12459
Lome
Togo
Tel: (228) 210-891
Fax: (228) 214-572

Type of business:
Distribution of Public Health Products in Togo

Countries supplied:
Togo

Products:
ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or sachets of 6 ml for individual net treatment (available during 1998). Icon CS is applied at low application rates (10-15mg ai/m²), remains effective for many months and withstands washing.



United Kingdom

57. AgrEvo UK Limited

Contact: M. Evans / J. Goose

Address: Region International
Hauxton
Cambridge CB2 5HU
United Kingdom
Tel: (44-1223) 870-312
Fax: (44-1223) 252-175

Type of business:

1) Manufacturer & supplier of environmental health products. 2) Supplier of ready-made nets.

Countries supplied:

Africa

Products:

1) K-O Tab - deltamethrin tablet containing 400mg deltamethrin. 1 tablet to treat 1 net.
K-Othrine SC - deltamethrin 1% suspension concentrate supplied in bulk (1 to 20 litre packs) or in sachets (1 sachet per net).

Permethrin - permethrin 10% and 55% emulsifiable concentrate formulations supplied in bulk (1 to 20 litres) or in sachets.

2) Polyester nets in various sizes and colours as required. Supplied untreated or treated with deltamethrin or permethrin (public health grade 25:75 cis: trans ratio).

58. Echo International Health Services Ltd

Contact: Maggie Pryce, Sales Manager

Address: Ullswater Crescent

Coulsdon Surrey CR5 2HR
United Kingdom
Tel: (44-181) 660-2220
Fax: (44-181) 668-0751
E-mail: cs@echohealth.org.uk

Type of business:

Not-for-profit supply organization. ECHO does not sell to the commercial sector.

Countries supplied:

Africa

Products:

ECHO supplies mosquito nets (untreated and treated with permethrin). Also, net treatment packs and sachets of insecticide. ECHO can quote for large quantities of nets which would be purchased to order; alternatively limited quantities are supplied ex stock.

59. Oasis Mosquito Nets

Contact: David Charlesworth

Address: High Street

Stoke Ferry Kings Lynn PE33 9SF
United Kingdom
Tel: (44-1366) 500-466
Fax: (44-1366) 501-122

Type of business:

Manufacturer and supplier

Countries supplied:

Africa

Products:

Provides advice on medium to large scale malaria control projects and provides mosquito nets, insecticides for their treatment and on-site training.

60. Zeneca Public Health

Contact: Mark Spinney / Neil Williams

Address: Fernhurst, Haslemere
Surrey GU27 3JE
United Kingdom
Tel: (44-1428) 657-067
Fax: (44-1428) 655-134
E-mail:
neil.williams@aguk.zeneca.com

Type of business:

Manufacturer and distributor of insecticide suitable for treatment of mosquito nets.

Countries supplied:

Africa

Products:

ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or (available during 1998) sachets of 6 ml for individual net treatment. Icon CS is applied at low application rates (10-15 mg ai/m²), remains effective for many months and withstands washing.

Zambia



61. Chemdol (Zambia) Ltd

Contact: Godwin Mulenga

Address: P.O. Box 33325
Lusaka
Zambia
Tel: (260-1) 272-793
Fax: (260-1) 272-840
E-mail: chemdol@zamnet.zm
WEB site:
<http://chemdol.hypermart.net>

Type of business:
Mosquito Nets & treatment

Countries supplied:

Zambia, Malawi, Dem. Rep of Congo, Angola

Products:

Mosquito nets & netting. Rectangular & conical nets. Standard sizes, or made to order. Volume discounts available.

ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or (available during 1998) sachets of 6 ml for individual net treatment. Icon CS is applied at low application rates (10-15 mg ai/m²), remains effective for many months and withstands washing.

Zimbabwe



62. Bayer Zimbabwe (Private) Ltd

Contact: Roaland Jooste

Address: P.O. Box AY 78, AMBY
Harare
Zimbabwe
Tel: (263-4) 487-247
Fax: (263-4) 487-242
E-mail: bayrat@harare.iafrica.com

Type of business:
Manufacturers and distributors of insecticides.

Countries supplied:

Zimbabwe

Products:

SOLFAC EW (contains 50g/l cyfluthrin). The EW (emulsion in water) formulation is suited to the impregnation of mosquito nets and curtains. It ensures that the active ingredient binds tightly to all fabric types and it contains no organic solvents. Recommended dosage 50 mg a.i./m² which will kill all mosquitoes (including nuisance) for 6 - 9 months.



63. Cyanamid Zimbabwe (Private) Limited

Contact: Fortune Charles Murahwa, Public Health / Non Crop Officer

Address: P.O. Box UA 414
Union Avenue
Union Avenue, 20 Austin Road,
Workington
Harare
Zimbabwe
Tel: (263-4) 620-244
Fax: (263-4) 620-245

Type of business:
Manufacturing and supply of Chemicals

Countries supplied:

Zimbabwe, Zambia & Malawi

Products:

Alphacypermethrin (Fendona 6SC) for impregnating mosquito nets.



64. EcoMark Ltd

Contact: David Zinyengere, Managing Director

Address: P.O. Box 2699
Harare
Zimbabwe
Tel: from 191 to 194
Fax: (263-4) 620-196 / 332-120
E-mail: ecomark@ecomedzw.com

Type of business:
Insecticides for net treatment

Countries supplied:

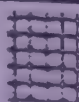
Zimbabwe, Zambia, Malawi, Botswana & Mozambique

Products:

K-O Tab - deltamethrin tablet containing 400mg deltamethrin. 1 tablet to treat 1 net.

K-Othrine SC - deltamethrin 1% suspension concentrate supplied in bulk (1 to 20 litre packs) or in sachets (1 sachet per net).

Permethrin - permethrin 10% and 55% emulsifiable concentrate formulations supplied in bulk (1 to 20 litres) or in sachets.



65. Emnet (Pvt) Ltd.

Contact: Peter Carroll, Managing Director

Address: Bay 10, 152 Mutare Road, Beverly East

P.O. Box GD 520, Greendale Harare

Zimbabwe

Tel: (263-4) 498-142 / 498-143

Fax: (263-4) 480-259

E-mail: emnet@samara.co.zw

WEB site:

<http://www.zimtrade.co.zw/PROFILE>

Type of business:

Manufacturer and supplier of ready-made bednets.

Countries supplied:

Africa

Products:

100% texturised 75 & 55 denier polyester, 196 mesh and 156 mesh, white and green, conical and rectangular styles; any shape, size, and colour is possible; factory pre-treated nets and treatment kits can be supplied (deltamethrin, permethrin, cyfluthrin, lambda-cyhalothrin).

Discount for volume.

Treated prior to sale: On request.

66. Zeneca Agrochemicals

Contact: Nan Chalmers, Regional Public Health Manager

Address: P.O. Box 1088

Harare

Zimbabwe

Tel: (263-4) 660-495/ 6

Fax: (263-4) 663-599

E-mail: nanc@zeneca.sni.co.zw

Type of business:

Public Health Malaria Control / Specialists in vector control

Countries supplied:

South Africa, Zimbabwe, Angola, Mozambique, Kenya, Tanzania, Mauritius, Uganda, Zambia, Namibia, Swaziland, Congo, Botswana, Malawi

Products:

ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or (available during 1998) sachets of 6 ml for individual net treatment. Icon CS is applied at low application rates (10-15 mg ai/m²), remains effective for many months and withstands washing.

67. Zeneca Agrochemicals

Contact: Martha Mpisaunga, Zimbabwe Public Health Manager

Address: P.O. Box 1088

Harare

Zimbabwe

Tel: (263-4) 660-495 / 660-496

Fax: (263-4) 663-599

E-mail: martham@zeneca.sni.co.zw

Type of business:

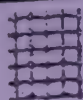
Public Health Malaria Control / Specialists in Vector Control

Countries supplied:

Zimbabwe

Products:

ICON CS (2.5% lambda-cyhalothrin): a water-based micro-encapsulated formulation developed for net treatment, supplied in 500 ml autodose bottles or (available during 1998) sachets of 6 ml for individual net treatment. Icon CS is applied at low application rates (10-15 mg ai/m²), remains effective for many months and withstands washing.





















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



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













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
















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
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05439





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


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

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










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